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Rectifiers

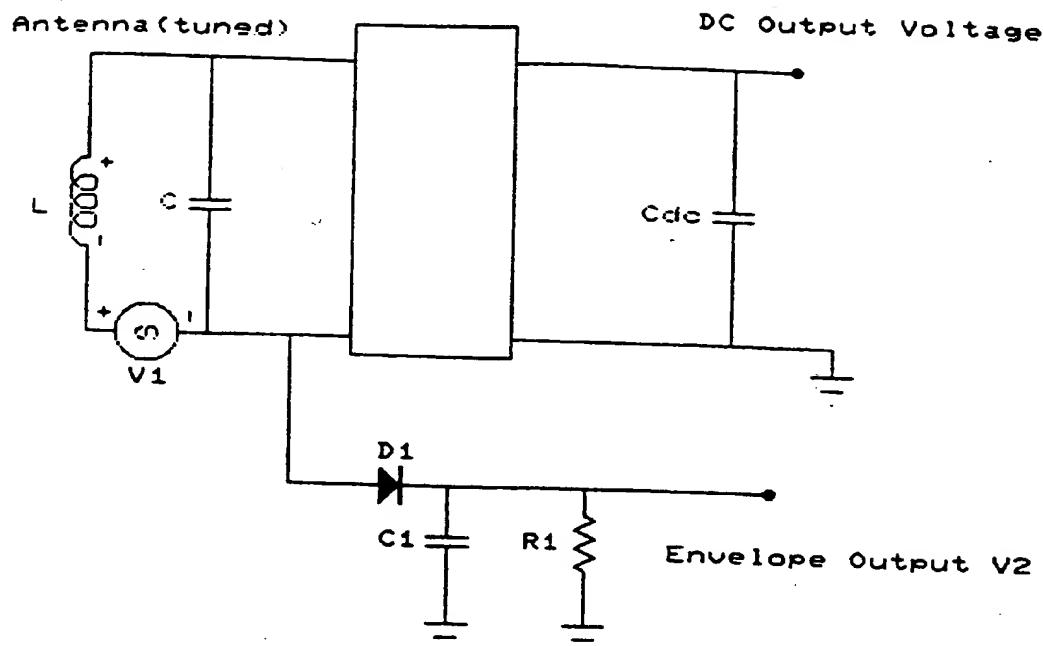


Figure 1 : Prior Art Transponder

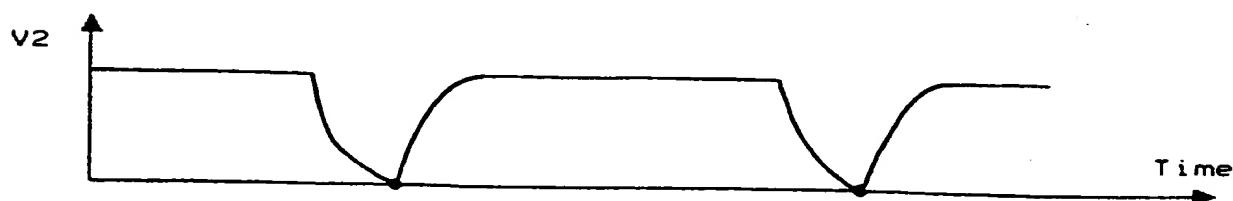
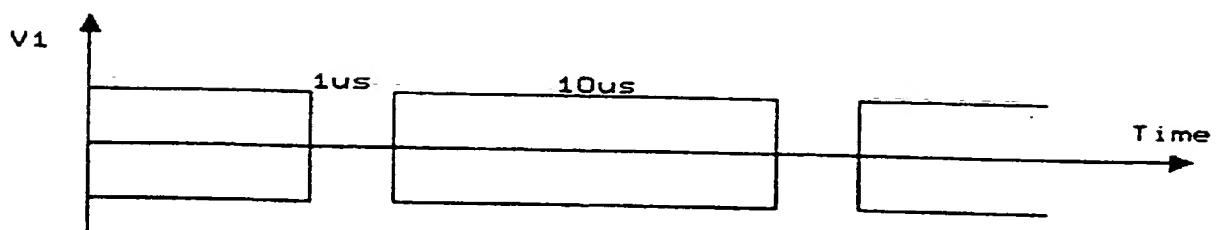


Figure 2 : Excitation V1 and Detected Envelope V2

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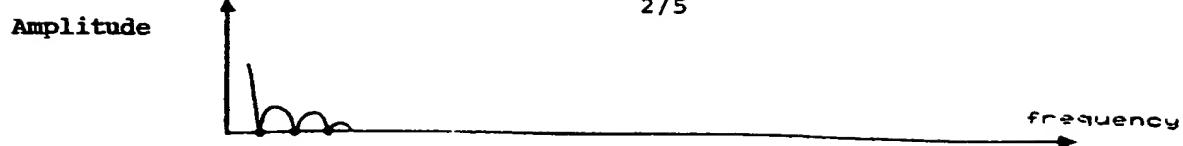


Figure 3(a) : Data Spectrum

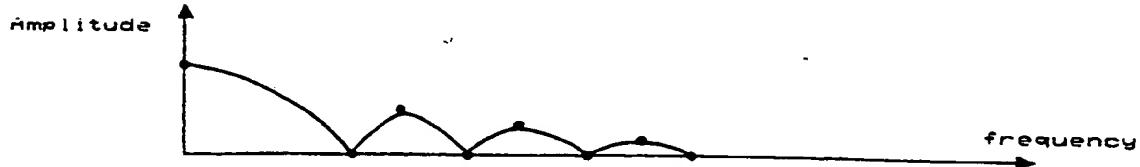


Figure 3(b) : Pulse Position Spectrum

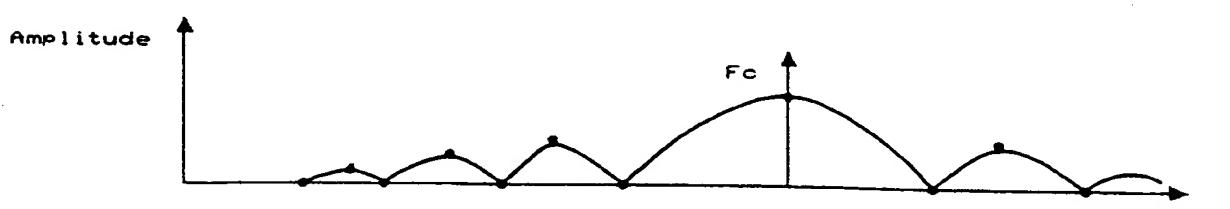


Figure 3(c) : Excitation Spectrum Modulated with PPM

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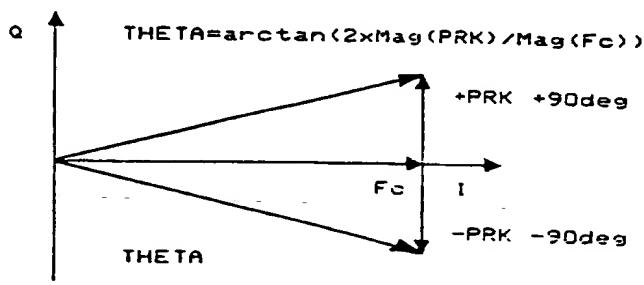
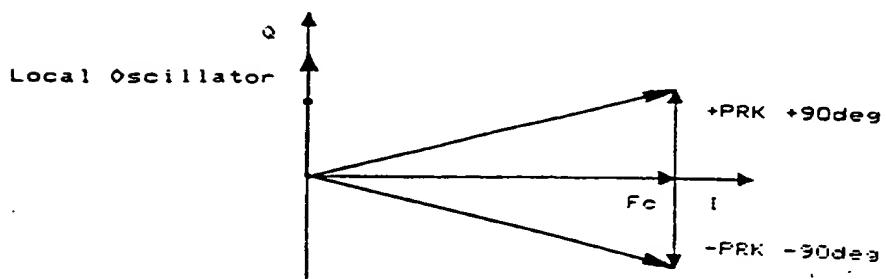


Figure 4(a) : Phasor diagram showing Excitation and Modulation

Figure 4(b) : Phasor diagram Showing Local Oscillator at 90deg to F_c

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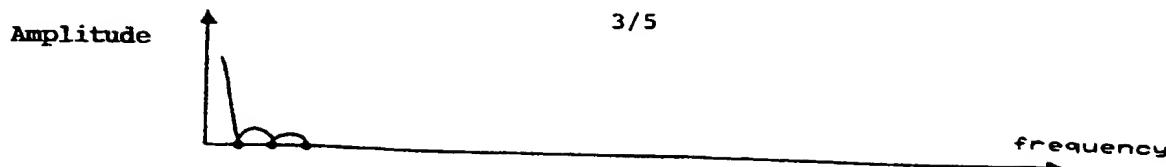


Figure 5(a) : Data Spectrum

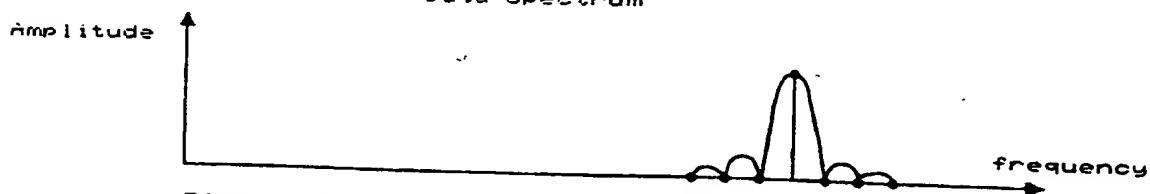


Figure 5(b) : Data Modulated Quadrature Excitation

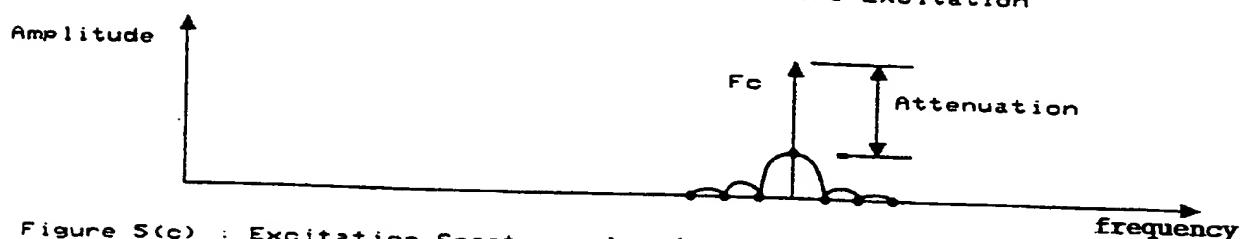


Figure 5(c) : Excitation Spectrum plus Attenuated Quadrature Modulation

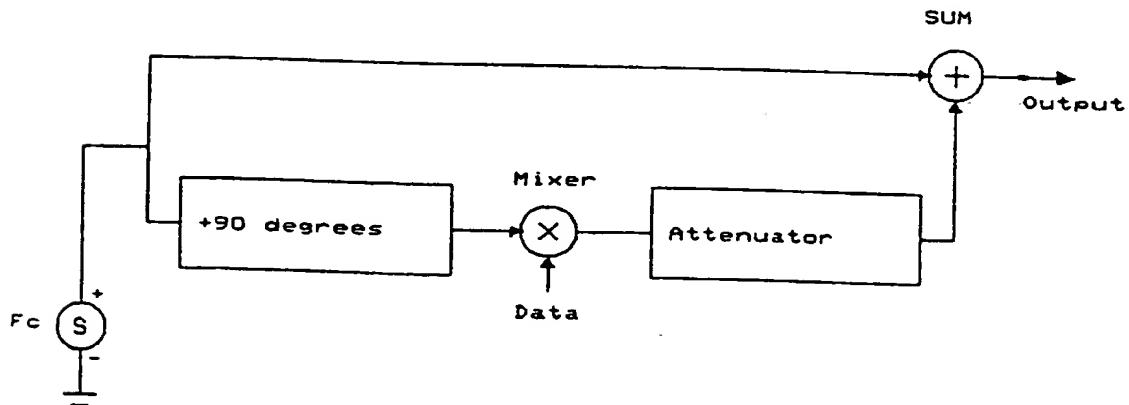


Figure 6(a) : Method of Modulating Excitation Signal

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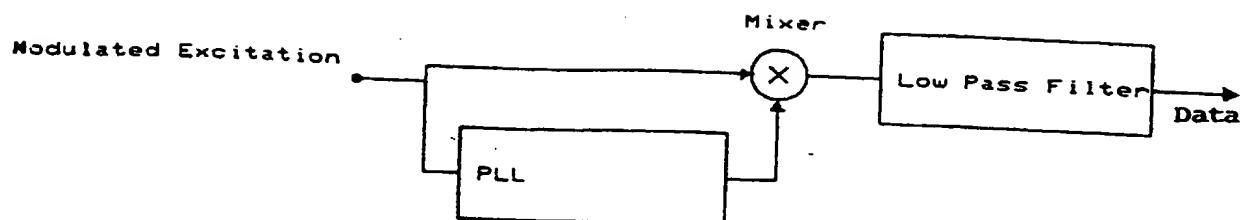


Figure 6(b) : Method of Demodulation

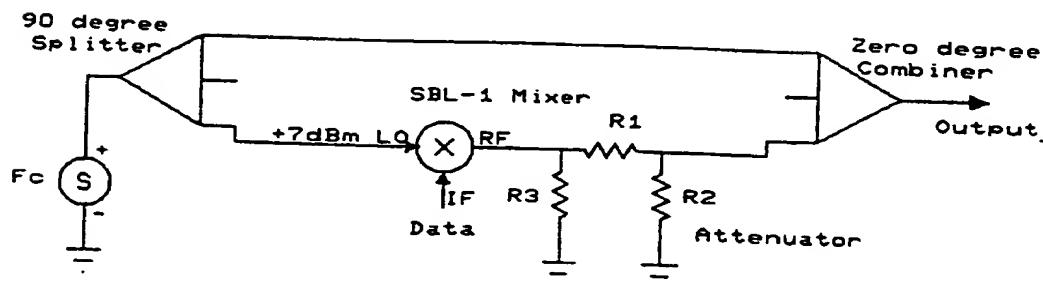


Figure 7 : Example Circuit for Modulating

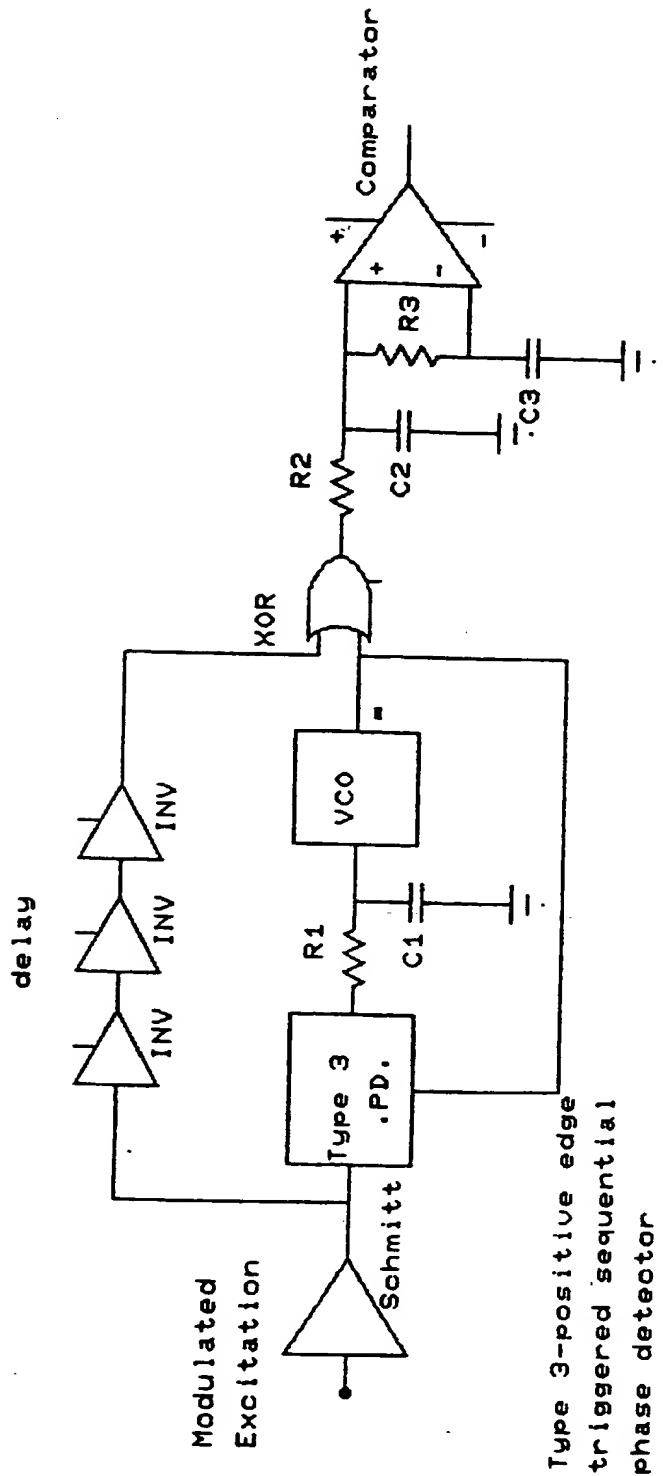


Figure 8 : Example Circuit for Demodulating